(19) JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **10004326 A**

(43) Date of publication of application: **06.01.98**

(51) Int. Cl **H03G 3/10**

(21) Application number: **08155815**

(22) Date of filing: **17.06.96**

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(54) **GAIN CONTROL CIRCUIT**

(57) Abstract:

PROBLEM TO BE SOLVED: To prevent an output level from being fluctuated by a control voltage.

SOLUTION: A constant current circuit using current amplification is connected to a collector of a transistor(TR) 1 being a component of an emitter coupling differential amplifier circuit whose current distribution ratio varies with a gain control voltage and an emitter coupling section consisting of TRs in pairs acting like differential amplification with respect to signal inputs is connected to a collector of a TR 2. The two collectors of the constant current circuits are connected to collectors of TRs 6, 7, 8, 9 acting like differential amplification with respect to signal inputs so as to make a current flowing to resistors 11, 12 connecting to the TRs 6, 7, 8, 9 constant.

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